

**HIGHLINE WATER DISTRICT
KING COUNTY, WASHINGTON**

RESOLUTION 19-11-20B

**RESOLUTION AUTHORIZING AMENDMENT NO. 1 TO COMMUNICATIONS SITE USE
AND LICENSE AGREEMENT WITH CLEAR WIRELESS, LLC ("LICENSEE") AT THE STAR
LAKE TANK SITE – 2649 STAR LAKE ROAD, FEDERAL WAY, WA**

WHEREAS, District and Licensee entered into a Communications Site Use and License Agreement effective April 26, 2016 (the "Agreement"), whereby District authorized Licensee to use for installation of Licensee's ground based communication equipment and cabling to Equipment on the License Area, as defined therein, certain Premises therein described (the "Premises") that are a portion of the Property located at 2649 Star Lake Road, Federal Way, King County, Washington ("Property"), which Property is legally described on Exhibit A attached hereto and incorporated herein by this reference; and

WHEREAS, in addition to the Premises, the Agreement permitted Licensee to install, maintain, operate and repair on a portion of the top surface (the "License Area") of the District's Star Lake Tank (the "Reservoir") not more than 4 panel antennas, 1 GPS antenna, and 4 microwave antenna, as depicted, configured and inventoried on Exhibit D to the Agreement (Licensee's "Equipment"); and

WHEREAS, Licensee desires to expand the use and/or the area of the License Area on the Reservoir as described and depicted on Exhibit B-1 attached hereto and incorporated herein by this reference (the "Expanded Use"), and District desires to consent to the Licensee's expansion or further use of the License Area, subject to Licensee's payment of additional Base Rent to the District for the expansion or further use of the License Area by the amendment of the Agreement; and

WHEREAS, Licensee now desires to obtain the District's consent to the amendment of Section 1.b of the Agreement to provide for the Expanded Use as described in Exhibit B-1; and

WHEREAS, the current Base Rent payable under the Agreement is Thirty-Three Thousand Two Hundred Sixty-One and 54/100 Dollars (\$33,261.54) per year; and

WHEREAS, District is willing to consent to the amendment of Section 1.b of the Agreement to provide for and allow the Expanded Use on the terms and conditions set forth below, on the condition that Section 2.b of the Agreement be amended to provide for the payment of adjusted Base Rent by the Licensee to the District for the Expanded Use.

**HIGHLINE WATER DISTRICT
KING COUNTY, WASHINGTON**

RESOLUTION 19-11-20B

NOW, THEREFORE, BE IT RESOLVED:

1. The Board of Commissioners approves the Amendment #1 to the Lease Agreement between Highline Water District and Clear Wireless, LLC (Attachment-1 incorporated herein by this reference).
2. The General Manager or designee is authorized to execute Amendment No. 1.
3. The General Manager and/or the District's legal counsel are authorized to make minor changes to the Amendment if required.

ADOPTED BY THE BOARD OF COMMISSIONERS of Highline Water District, King County, Washington, at an open public meeting held this **20th** day of **November 2019**.

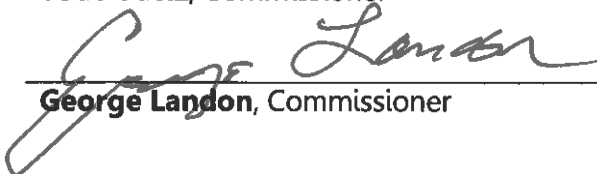
BOARD OF COMMISSIONERS



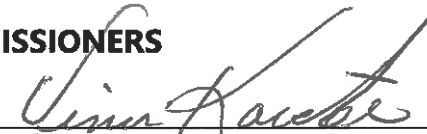
Kathleen Quong-Vermeire, President



Todd Fultz, Commissioner



George Landon, Commissioner



Vince Koester, Secretary



Daniel Johnson, Commissioner

AMENDMENT NO. 1 TO
COMMUNICATIONS SITE USE AND LICENSE AGREEMENT

THIS AMENDMENT NO. 1 TO COMMUNICATIONS SITE USE AND LICENSE AGREEMENT (“**Amendment No. 1**” or “**Amendment**”), dated as of the latter of the signature dates below (the “**Effective Date**”), is by and between HIGHLINE WATER DISTRICT, a Washington municipal corporation, having its principal place of business at 23828 – 30th Ave. S, Kent, Washington 98032 (herein (“**District**” or “**Licensor**”), and CLEAR WIRELESS LLC, a Nevada limited liability company, having its principal place of business at 6220 Sprint Parkway, Overland Park, KS 66251-2650 (“**Licensee**”) (individually a “**Party**” and collectively the “**Parties**”).

WHEREAS, District and Licensee entered into a Communications Site Use and License Agreement effective April 26, 2016 (the “**Agreement**”), whereby District authorized Licensee to use for installation of Licensee’s ground based communication equipment and cabling to Equipment on the License Area, as defined therein, certain Premises therein described (the “**Premises**”) that are a portion of the Property located at 2649 Star Lake Road, Federal Way, King County, Washington (“**Property**”), which Property is legally described on **Exhibit A** attached hereto and incorporated herein by this reference; and

WHEREAS, in addition to the Premises, the Agreement permitted Licensee to install, maintain, operate and repair on a portion of the top surface (the “**License Area**”) of the District’s Star Lake Tank (the “**Reservoir**”) not more than 4 panel antennas, 1 GPS antenna, and 4 microwave antenna, as depicted, configured and inventoried on Exhibit D to the Agreement (Licensee’s “**Equipment**”); and

WHEREAS, Licensee desires to expand the use and/or the area of the License Area on the Reservoir as described and depicted on **Exhibit B-1** attached hereto and incorporated herein by this reference (the “**Expanded Use**”), and District desires to consent to the Licensee’s expansion or further use of the License Area, subject to Licensee’s payment of additional Base Rent to the District for the expansion or further use of the License Area by the amendment of the Agreement; and

WHEREAS, Licensee now desires to obtain the District’s consent to the amendment of Section 1.b of the Agreement to provide for the Expanded Use as described in **Exhibit B-1**; and

WHEREAS, the current Base Rent payable under the Agreement is Thirty-Three Thousand Two Hundred Sixty-One and 54/100 Dollars (\$33,261.54) per year; and

WHEREAS, District is willing to consent to the amendment of Section 1.b of the Agreement to provide for and allow the Expanded Use on the terms and conditions set forth below, on the condition that Section 2.b of the Agreement be amended to provide for the payment of adjusted Base Rent by the Licensee to the District for the Expanded Use.

NOW THEREFORE, in consideration of the terms and conditions set forth herein, the Parties agree that the recitals set forth above are incorporated herein as if set forth in their entirety and further agree as follows:

1. **License Area; Licensee's Equipment.** Section 1.a and Section 1.b of the Agreement, and Exhibit C and Exhibit D to the Agreement, Licensee's Equipment, are hereby amended as set forth on **Exhibit B-1** hereto. Exhibit B-1 supplements Section 1.a and Section 1.b, and Exhibit C and Exhibit D to the Agreement, and shall not be deemed to supersede or otherwise modify Sections 1.a or 1.b, or Exhibit C or Exhibit D or any part thereof except to the extent specifically set forth in Exhibit B-1.

2. **Base Rent.** Section 2 of the Agreement relating to the current Base Rent payable by Licensee to the District is hereby amended to provide the annual Base Rent payable under the Agreement shall be increased from \$33,261.54 by the sum of Six Thousand Three Hundred Ninety-Three Dollars (\$6,393.00) to the amount of Thirty-Nine Thousand Six Hundred Fifty-Four and 54/100 Dollars (\$39,654.54) ("Adjusted Base Rent"), and Licensee shall pay to District, within thirty (30) days of the Effective Date of this Amendment, the difference in the Base Rent paid by Licensee prior to this Amendment and the Adjusted Base Rent, prorated on a daily basis at the rate of Seventeen and 52/100 Dollars (\$17.52) from the Effective date through March 31, 2020. Effective April 1, 2020, pursuant to Section 2.b of the Agreement, the Base Rent shall be adjusted to Forty-One Thousand Forty-Two and 45/100 Dollars (\$41,042.45). Thereafter, the Base Rent shall be annually adjusted during the term of and as provided in the Agreement.

3. **Notices.** Licensee confirms its address for notices, as set forth in Section 19 of the Agreement, is as follows:

Licensee: Clear Wireless LLC
c/o Sprint Property Service
Re: Cell Site #WA-TAC163
Sprint Site ID: SE52XC241
Mailstop KSOPHD0101-Z2650
6220 Sprint Parkway
Overland Park, KS 66251-2650

With a copy to: Sprint Law Department
Attn: Real Estate Attorney
Re: Cell Site # WA-TAC163
Sprint Site ID: SE52XC241
Mailstop KSOPHD01011-Z2020
6220 Sprint Parkway
Overland Park, KS 66251-2020

4. **Reaffirmation; Intention to be Bound.** Except as expressly amended by this Amendment, each and every term, condition and agreement contained in the Agreement shall remain in full force and effect. The Parties reaffirm that the representations and warranties made by each Party in the Agreement are true and accurate as of the Effective Date. The Parties executing this Amendment on behalf of themselves, their assigns and successors, hereby acknowledge and reaffirm their intention to be bound by the terms and conditions of the Agreement.

5. **Recitals; Capitalized Terms.** The recitals set forth above are a part of this Amendment. Unless otherwise defined herein, capitalized terms used in this Amendment have the meanings assigned to them in the Agreement.

6. **Amendment Fee.** In consideration of the District's agreement to amend the Agreement as provided herein, at the time of the execution of this Amendment and as a condition to its effectiveness, Licensee shall pay and reimburse to the District its administrative and legal fees and costs in the amount of Two Thousand Five Hundred Dollars (\$2,500.00)

IN WITNESS WHEREOF, the Parties have caused their properly authorized representatives to execute this Amendment No. 1 on the dates set forth below.

DISTRICT:

HIGHLINE WATER DISTRICT,
a Washington municipal corporation

LICENSEE:

CLEAR WIRELESS LLC,
a Nevada limited liability company

By: _____

Name: _____

Title: _____

Date: _____

By: Mary Murdoch

Name: Mary Murdoch

Title: manager

Date: 11/4/2019

STATE OF WASHINGTON)
)ss.
COUNTY OF KING)

I CERTIFY that I know or have satisfactory evidence that _____ is the person who appeared before me, and said person acknowledged that he signed this instrument, on oath stated that he was authorized to execute this instrument and acknowledged it as the General Manager of HIGHLINE WATER DISTRICT, a Washington municipal corporation, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

DATED: _____

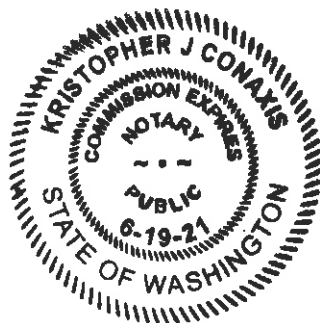
(Print name)
NOTARY PUBLIC in and for the
State of Washington, residing at

My appointment expires: _____

STATE OF Washington)
)ss.
COUNTY OF King)

I CERTIFY that I know or have satisfactory evidence that Mary Murdoch is the person who appeared before me, and said person acknowledged that s/he signed this instrument, on oath stated that s/he was authorized to execute this instrument and acknowledged it as the MANAGER, of CLEAR WIRELESS LLC, a Nevada limited liability company, to be the free and voluntary act of such party for the uses and purposes mentioned in the instrument.

DATED: 11/4/2019



Kristopher J Conaxis
(Print name)
NOTARY PUBLIC in and for the
State of Washington, residing at
Belleuve, WA
My appointment expires: 6-19-2021

EXHIBIT A

Amendment No. 1 to Communications Site Use and License Agreement

Legal Description

Star Lake Tank Legal Description

THAT PORTION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER AND OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 22 NORTH, RANGE 4 EAST, W.M., KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT THE CENTER OF SAID SECTION 33;

THENCE N 26°28'20" W 300.0 FEET;

THENCE N 52°16'20" E 280.0 FEET;

THENCE S 26°28'20" E TO A POINT N 52°16'20" E FROM THE POINT OF BEGINNING;

THENCE S 52°16'20" W 280.0 FEET TO THE POINT OF BEGINNING.

(ALSO KNOWN AS THE SOUTHWESTERLY 280.0 FEET OF TRACT 7 OF REDONDO HEIGHTS AN UNRECORDED PLAT);

TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER A STRIP OF LAND 20 FEET IN WIDTH, THE SOUTHEASTERLY AND NORTHEASTERLY LINES OF WHICH ARE DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST EASTERLY CORNER OF THE ABOVE DESCRIBED TRACT;

THENCE N 52°16'20" E TO THE SOUTHWESTERLY MARGIN OF PRIMARY STATE HIGHWAY NO. 1 AS CONVEYED TO THE STATE OF WASHINGTON BY DEED RECORDED UNDER AUDIT FILE NO. 4968797;

THENCE NORTHWESTERLY ALONG SAID SOUTHWESTERLY MARGIN TO A POINT OF THE NORTHWESTERLY MARGIN OF PRIMARY STATE HIGHWAY NO.1;

THENCE N 53°13' E ALONG SAID NORTHWESTERLY MARGIN 20 FEET, MORE OR LESS TO THE SOUTHWESTERLY MARGIN OF STAR LAKE COUNTY ROAD AND THE TERMINUS OF SAID LINES.

BASIS OF BEARING

N 87°36'30" W ALONG THE NORTH LINE OF THE NORTHEAST QUARTER OF SEC. 22 BETWEEN MONUMENTS FOUND IN PLACE AS SHOWN. HORIZONTAL MERIDIAN IS K.C.A.S.

REFERENCES

**K.C.A.S. SECTION BREAKDOWN SHEET
PLAT - SCARBOROUGH DIV. 2 VOL. 132 OF PLATS, PGS 47-48
K.C.S.P. 879040 - REC. NO. 8003310984
RECORD OF SURVEY (ROS) BENNETT & FOX - VOL 4 OF SURV. , PG 223
ROS: SEA INC - VOL. 16, PG 299, VOL 18, PG 176 & VOL 19, PG 106
ROS: LUND & ASSOC. - VOL 26, PG 76 & VOL 26, PG 77
ROS: DAVID MEENTS - VOL. 38, PG 157
ROS: STEPHEN & ASSOC. - VOL. 47, PG 171
ROS: PAC-TECH - VOL. 48, PG 132
ROS: SADLER BERNARD - VOL. 52, PG 263
ROS: HCE - VOL. 65, PG 220**

EXHIBIT B-1

Amendment No. 1 to Communications Site Use and License Agreement

Description of Expanded Use

LICENSEE'S EQUIPMENT - IMPROVEMENTS

The improvements authorized under the Communications Site Use and License Agreement are as depicted in the attached Construction Drawings as follows:

- Three (3) MIMO Antennas
- Three (3) 1900 MHz RRU's
- Three (3) 800 MHz RRU's
- One (1) MIMO Cable
- Increase of 41.25 SF Ground Space to a total of 90.25 SF

No additional equipment or modifications are authorized unless approved in accordance with Section 1h of the Communications Site Use and License Agreement.

Agenda Item No.: 5.2
Agenda Date: 11/20/19
Reviewed By: 

Subject: Authorize Amendment No. 1 – Site Lease Agreement with Clear Wireless, LLC
Star Lake Tank Site

CATEGORY	
<i>Executive</i>	<input type="checkbox"/>
<i>Administrative</i>	<input checked="" type="checkbox"/>
<i>Engineering/Operations</i>	<input checked="" type="checkbox"/>

FINANCIAL			
<i>Expenditures?</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<i>Budgeted?</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<i>Estimated Amount:</i> \$ _____			Excludes sales tax

ATTACHMENTS:

1. Resolution 19-11-20B
2. Attachment-1: Amendment No. 1 to Lease Agreement

COMMENTS:

Licensee desires to expand the use and/or the area of the License Area on the Reservoir as described and depicted on Exhibit B-1 attached hereto and incorporated herein by this reference (the "Expanded Use"), and District desires to consent to the Licensee's expansion or further use of the License Area, subject to Licensee's payment of additional Base Rent to the District for the expansion or further use of the License Area by the amendment of the Agreement.

Licensee now desires to obtain the District's consent to the amendment of Section 1.b of the Agreement to provide for the Expanded Use as described in Exhibit B-1.

The current Base Rent payable under the Agreement is Thirty-Three Thousand Two Hundred Sixty-One and 54/100 Dollars (\$33,261.54) per year.



UPGRADE:
MASSIVE MIMO
EQUIPMENT DEPLOYMENT

SITE NAME: STAR LAKE WATER TANK
 SPRINT CASCADE: SE52XC241
 SITE ADDRESS: 2649 S. STAR LAKE RD
 FEDERAL WAY, WA 98003

SITE TYPE: WATER TANK

DRAWING DESCRIPTION: CONSTRUCTION DRAWINGS



DRAWN BY: JL
 CHECKED BY: CL

DRAWING VERSION		
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

LICENSER	

PROJECT INFORMATION	
STAR LAKE WATER TANK	SE52XC241
2649 S STAR LAKE RD, FEDERAL WAY, WA 98003	

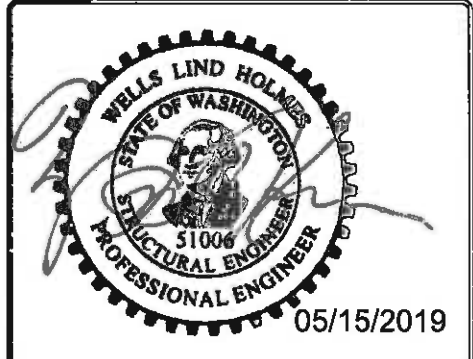
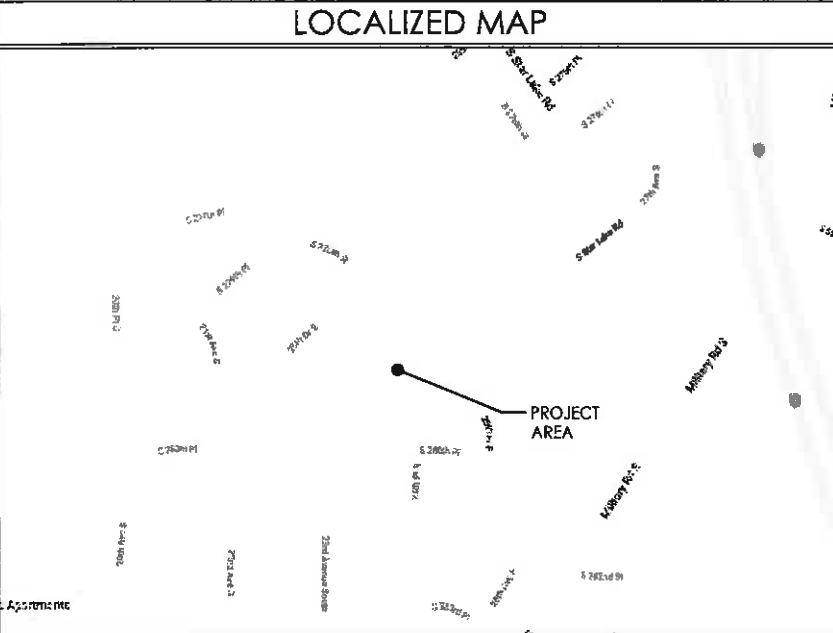
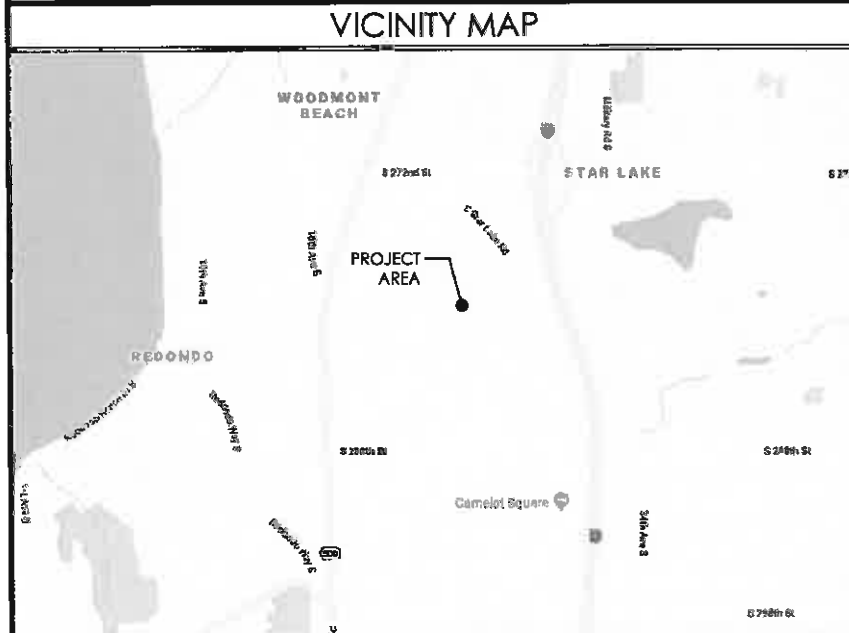
SHEET TITLE	
TITLE SHEET	

SHEET NO.	
T1.0	

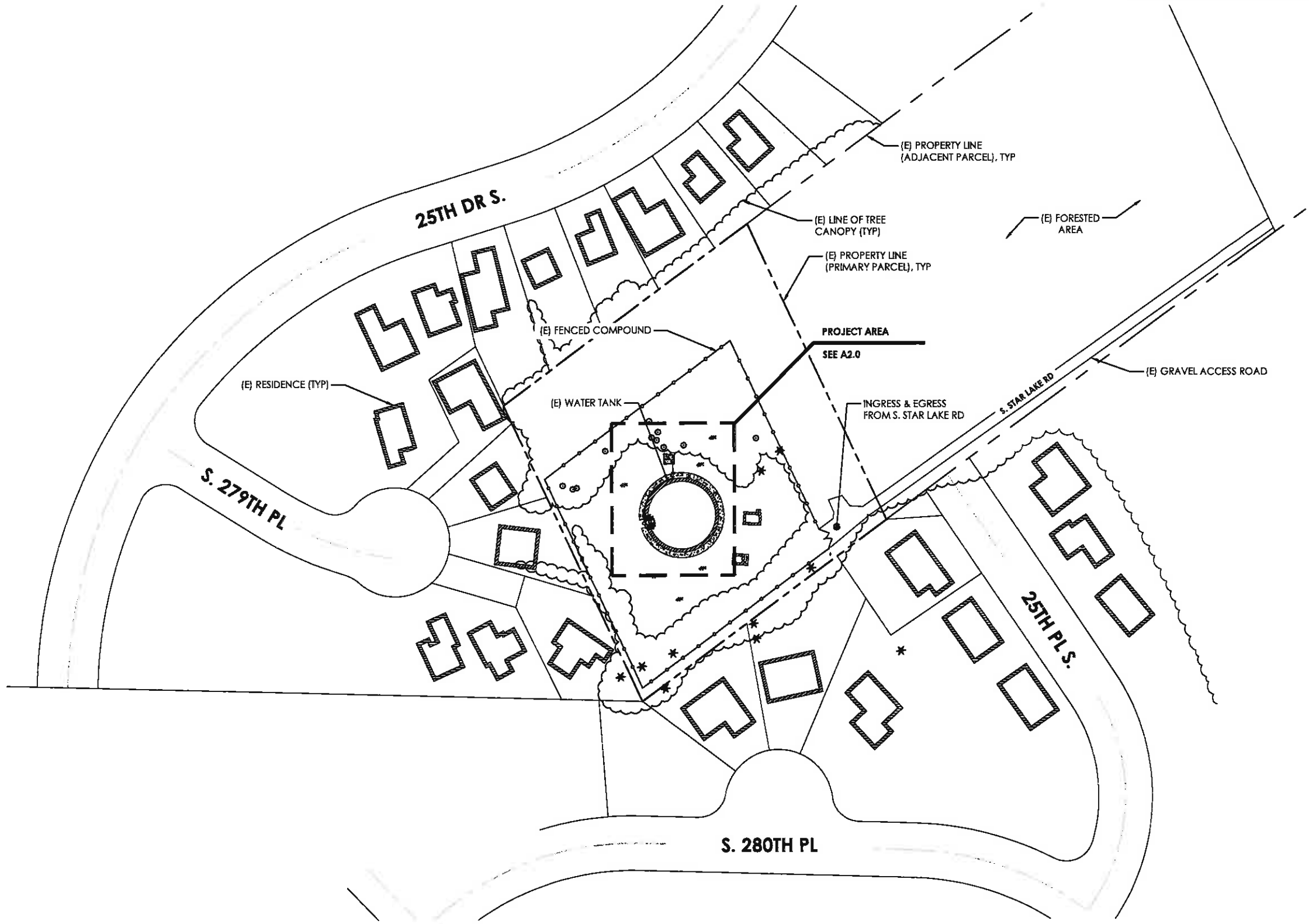
PROJECT CONTACTS	PROJECT DESCRIPTION	PROJECT INFORMATION	DRIVING DIRECTIONS	SHEET INDEX
<p>APPLICANT: SPRINT 1000 124TH AVE NE, STE 201 BELLEVUE, WA 98005</p> <p>PROPERTY OWNER: HIGHLINE WATER DIST. 23828 39TH AVE S KENT, WA 98032</p> <p>ZONING/PERMITTING AGENT: MD7 KATHLEEN DOAN-HA 858-964-7430 10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130 KDOANHA@MD7.COM</p> <p>SITE ACQUISITION AGENT: MD7 ANTONETTE OCAMPO 858.964.7413 10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130 AOCAMPO@MD7.COM</p> <p>PROJECT MANAGER: SPRINT 1000 124TH AVE NE, STE 201 BELLEVUE, WA 98005 KEVIN FOY</p> <p>CONSTRUCTION MANAGER: SPRINT 1000 124TH AVE NE, STE 201 BELLEVUE, WA 98005 MARK WEAVER 949.748.3482 MARK.2.WEAVER@SPRINT.COM</p> <p>ENGINEER OF RECORD: VECTOR STRUCTURAL ENGINEERING 651 W. GALENA PARK BLVD., SUITE 101 DRAPER, UT 84020 WELLS L. HOLMES, SE PH: 801.990.1775</p>	<p>SPRINT PROPOSES TO MODIFY AN EXISTING SITE AS FOLLOWS:</p> <ul style="list-style-type: none"> REMOVE AND REPLACE (E) CONC. SLAB WITH (N) 9'-6" X 9'-6" CONC SLAB REMOVE AND REPLACE (1) (E) CABINET AND H-FRAME WITH (1) ECAB, (1) BCAB, (1) H-FRAME, & (1) WORK LIGHT REMOVE AND REPLACE (1) (E) GPS ANTENNA WITH (1) (N) GPS ANTENNA REMOVE AND REPLACE (3) (E) ANTENNAS WITH (3) (N) DUAL BAND ANTENNAS REMOVE (3) 2.5 RRUS REMOVED AND REPLACE (3) (E) HYBRID CABLES WITH (3) (N) HYBRID CABLES INSTALL (3) MASSIVE MIMO ANTENNAS INSTALL (3) (N) 1900 MHZ RRUS INSTALL (3) 800 MHZ RRUS INSTALL (1) (N) MIMO CABLE INSTALL DU IN EXISTING MMBS 	<p>PARCEL #: 720480-0041</p> <p>JURISDICTION: CITY OF FEDERAL WAY</p> <p>ZONING: RS9.6</p> <p>COUNTY: KING</p> <p>LATITUDE: 47° 21' 03.80" N (47.3511° N) LONGITUDE: -122° 18' 08.85" W (-122.3025° W)</p> <p>GROUND ELEVATION: 464.0' (ASML)</p> <p>OCCUPANCY: U (UNMANNED COMMUNICATIONS FACILITY)</p> <p>GROUP: II-B</p> <p>POWER PROVIDER: PSE</p> <p>TELCO PROVIDER: CENTURY LINK</p> <p><small>** THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE OWNER IS STRICTLY PROHIBITED.</small></p>	<p>FROM SPRINT OFFICE IN BELLEVUE, WA:</p> <p>GET ON I-405 S FROM NE 8TH ST 5 MIN (1.7 MI)</p> <p>FOLLOW I-405 S AND I-5 S TO S 272ND ST IN KENT. TAKE EXIT 147 FROM I-5 S 22 MIN (21.1 MI)</p> <p>DRIVE TO S STAR LAKE RD IN FEDERAL WAY 4 MIN (1.0 MI)</p> <p>TOTAL MILES: 23.8 MILES TOTAL TIME: 30 MIN</p>	<p>T1.0 TITLE SHEET</p> <p>SP-1 SPRINT CONSTRUCTION SPECIFICATIONS</p> <p>SP-2 SPRINT CONSTRUCTION SPECIFICATIONS</p> <p>A1.0 OVERALL SITE PLAN</p> <p>A2.0 ENLARGED SITE PLAN & EQUIPMENT PLAN</p> <p>A3.0 ELEVATIONS</p> <p>A3.1 ELEVATIONS</p> <p>A4.0 ANTENNA PLANS AND SCHEDULE</p> <p>A5.0 EQUIPMENT SPECIFICATIONS</p> <p>A5.1 EQUIPMENT SPECIFICATIONS</p> <p>A5.2 EQUIPMENT SPECIFICATIONS</p> <p>E1.0 ELECTRICAL DETAILS</p>

GOVERNING CODES	
2015 INTERNATIONAL BUILDING CODE	2015 MECHANICAL SPECIALTY CODE
2015 INTERNATIONAL FIRE CODE	2017 NFPA 70 NATIONAL ELECTRICAL CODE
2015 WASHINGTON STATE ENERGY CODE	

A.D.A. COMPLIANCE
 INSTALLATION IS UNMANNED / NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED PER A.D.A.



NOTES:
 1. THE OVERALL SITE PLAN IS GENERATED FROM MULTIPLE SOURCES INCLUDING, BUT NOT LIMITED TO, GIS MAPS, AERIAL MAPS, PHOTOS, IMAGES, AND TOPOGRAPHIC SURVEY (IF PROVIDED).



CAPITAL DESIGN SERVICES
 2101 4TH AVE E, SUITE 202
 OLYMPIA, WA 98506
 360.915.8750
 WWW.CAPITALDESIGNSERVICES.COM



VSE Job #: U2619-181-193
VECTOR
 ENGINEERS

DRAWN BY: JL
 CHECKED BY: CL

DRAWING VERSION		
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

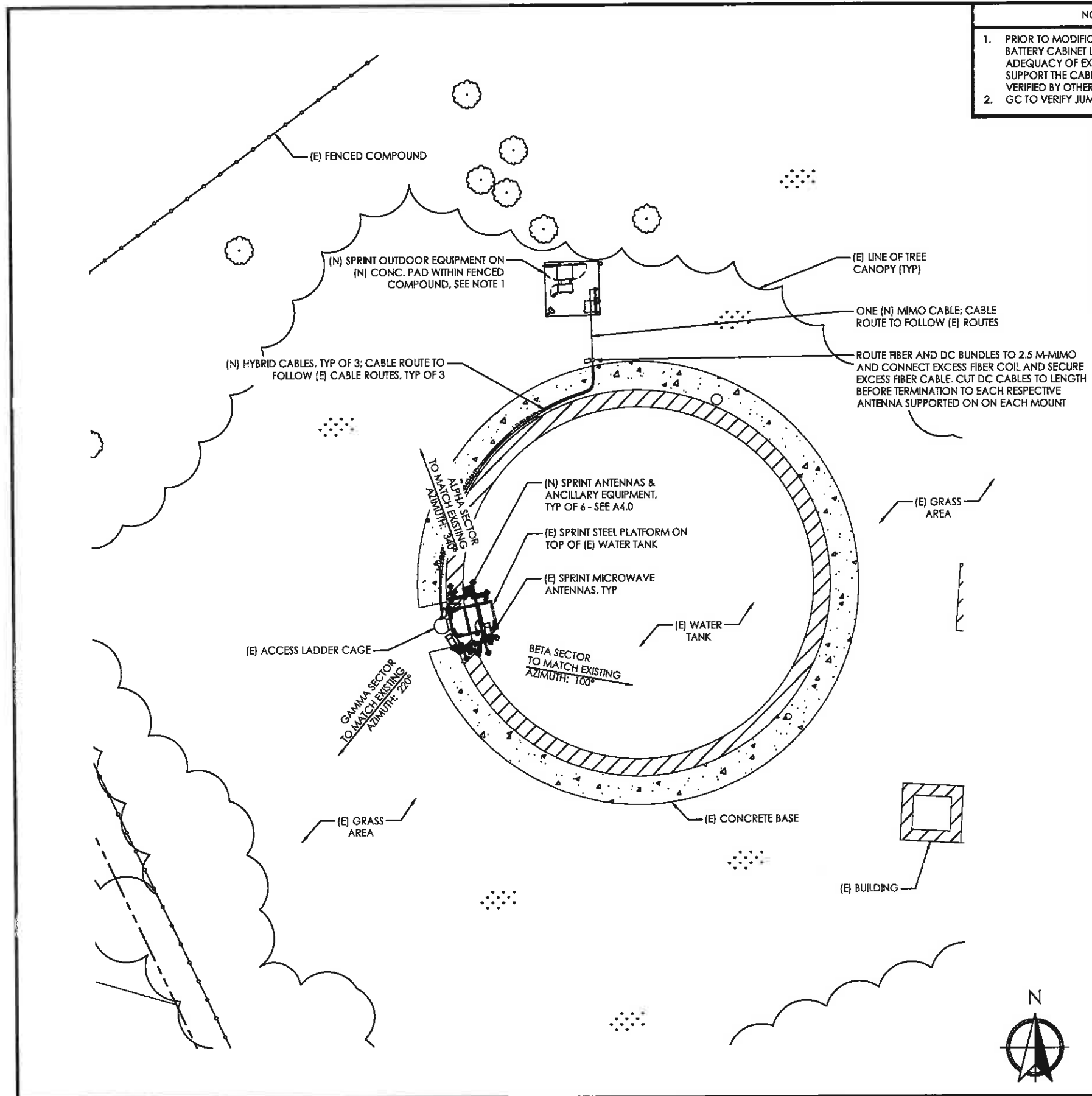
LICENSER

PROJECT INFORMATION
STAR LAKE WATER TANK
 SE52XC241
 2649 S STAR LAKE RD,
 FEDERAL WAY, WA 98003

SHEET TITLE
OVERALL SITE PLAN

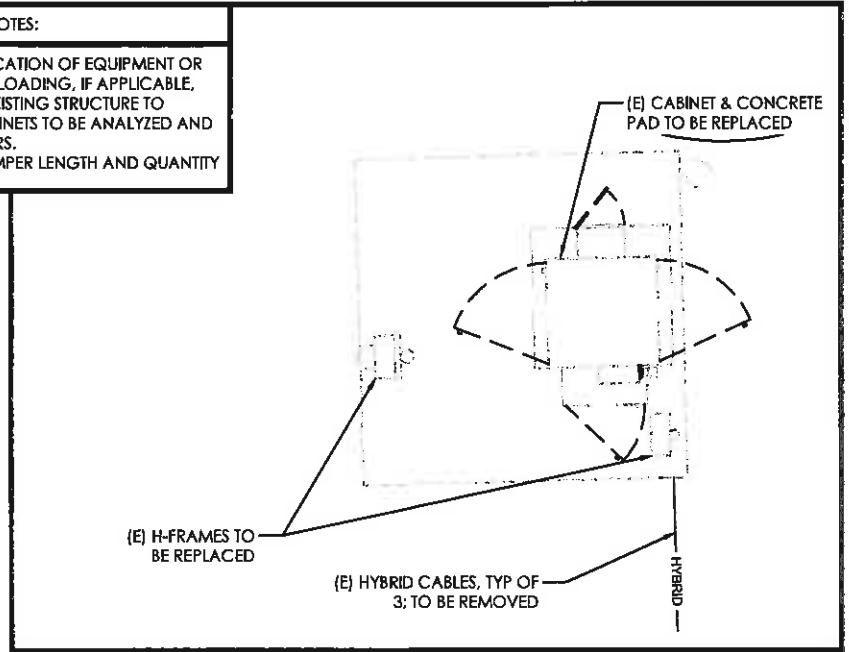
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A1.0



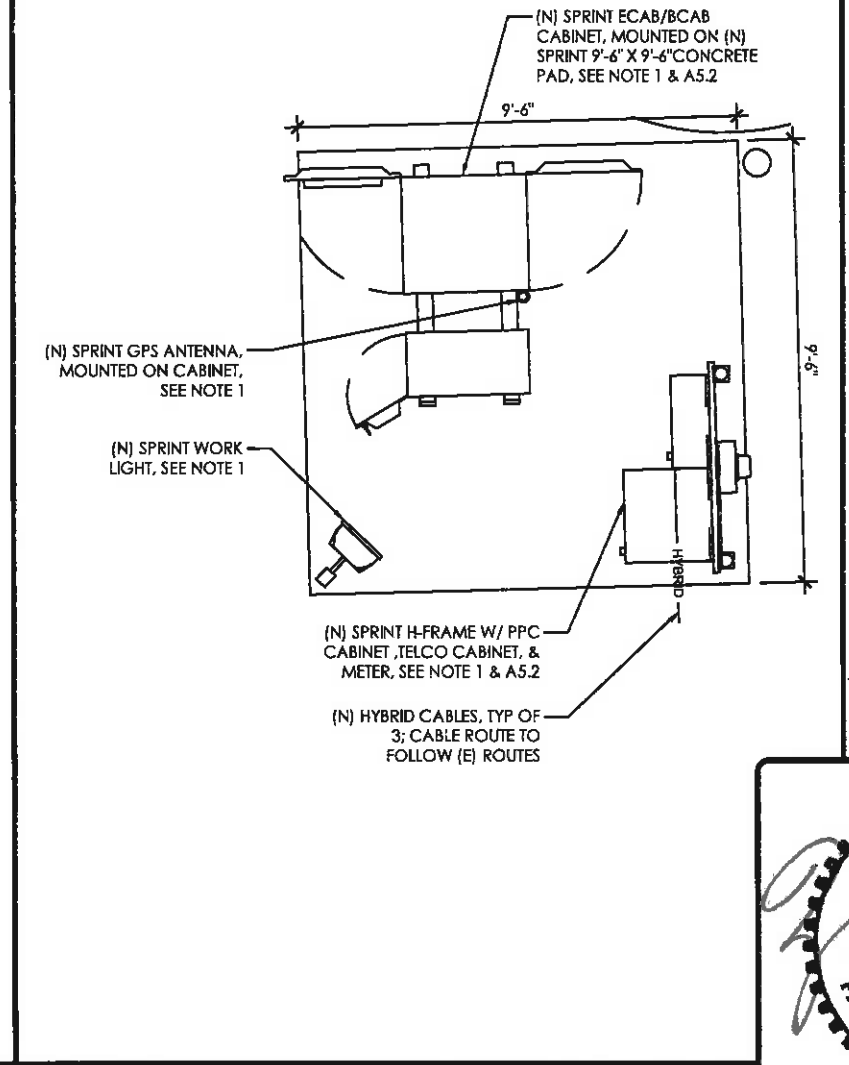


NOTES:

1. PRIOR TO MODIFICATION OF EQUIPMENT OR BATTERY CABINET LOADING, IF APPLICABLE, ADEQUACY OF EXISTING STRUCTURE TO SUPPORT THE CABINETS TO BE ANALYZED AND VERIFIED BY OTHERS.
2. GC TO VERIFY JUMPER LENGTH AND QUANTITY



2 (E) EQUIPMENT LAYOUT 11X17 SCALE: NTS 22 X 34 SCALE: NTS



3 (N) EQUIPMENT LAYOUT 11X17 SCALE: NTS 22 X 34 SCALE: NTS



CAPITAL DESIGN SERVICES
2101 4TH AVE E. SUITE 202
OLYMPIA, WA 98506
360.915.6750
WWW.CAPITALDESIGNSERVICES.COM



VSE Job #: U2619-181-193
VECTOR
ENGINEERS

DRAWN BY: JL
CHECKED BY: CL

DRAWING VERSION		
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

LICENSER

PROJECT INFORMATION
STAR LAKE WATER TANK
SE52XC241
2649 S STAR LAKE RD,
FEDERAL WAY, WA 98003

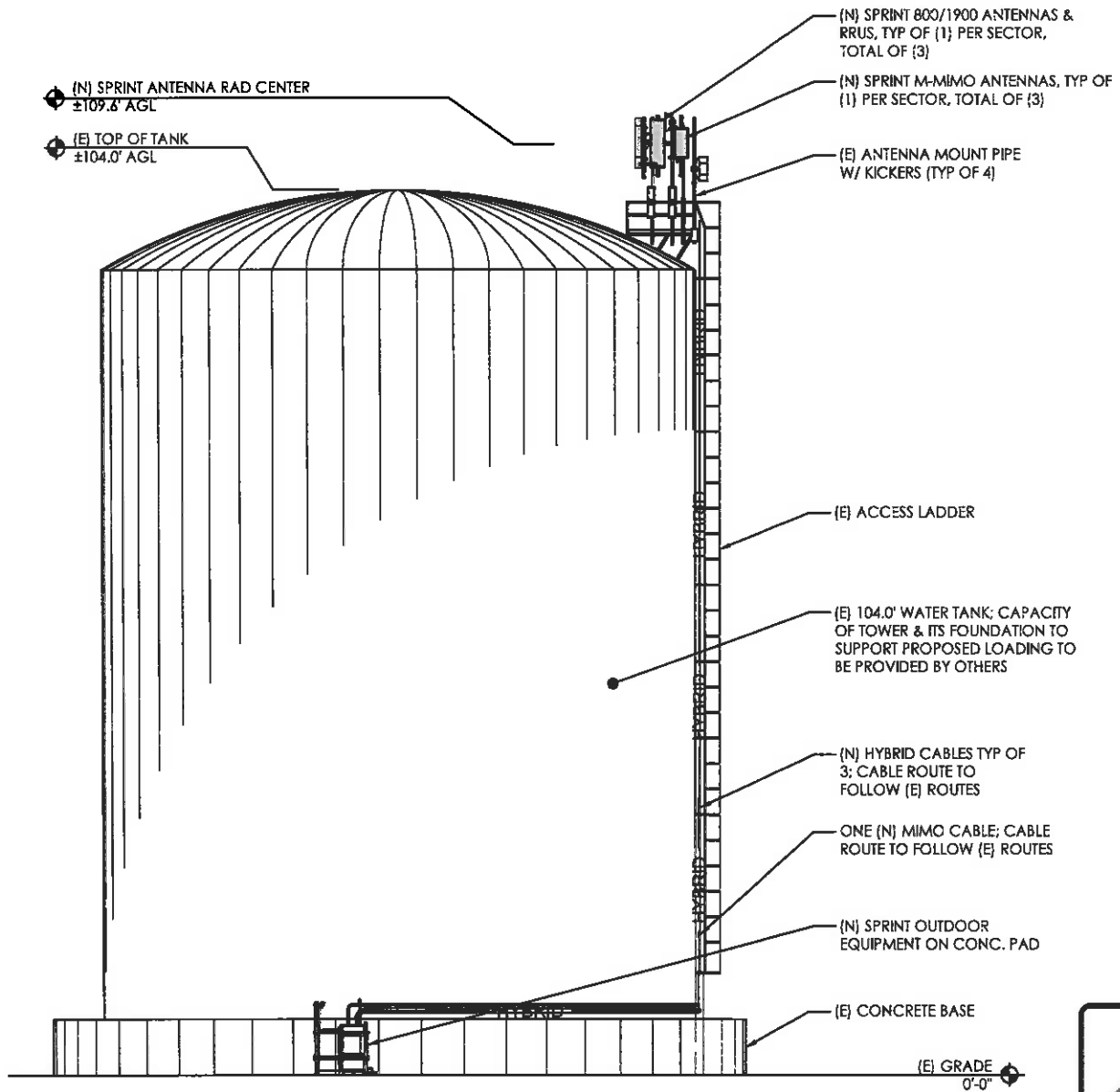
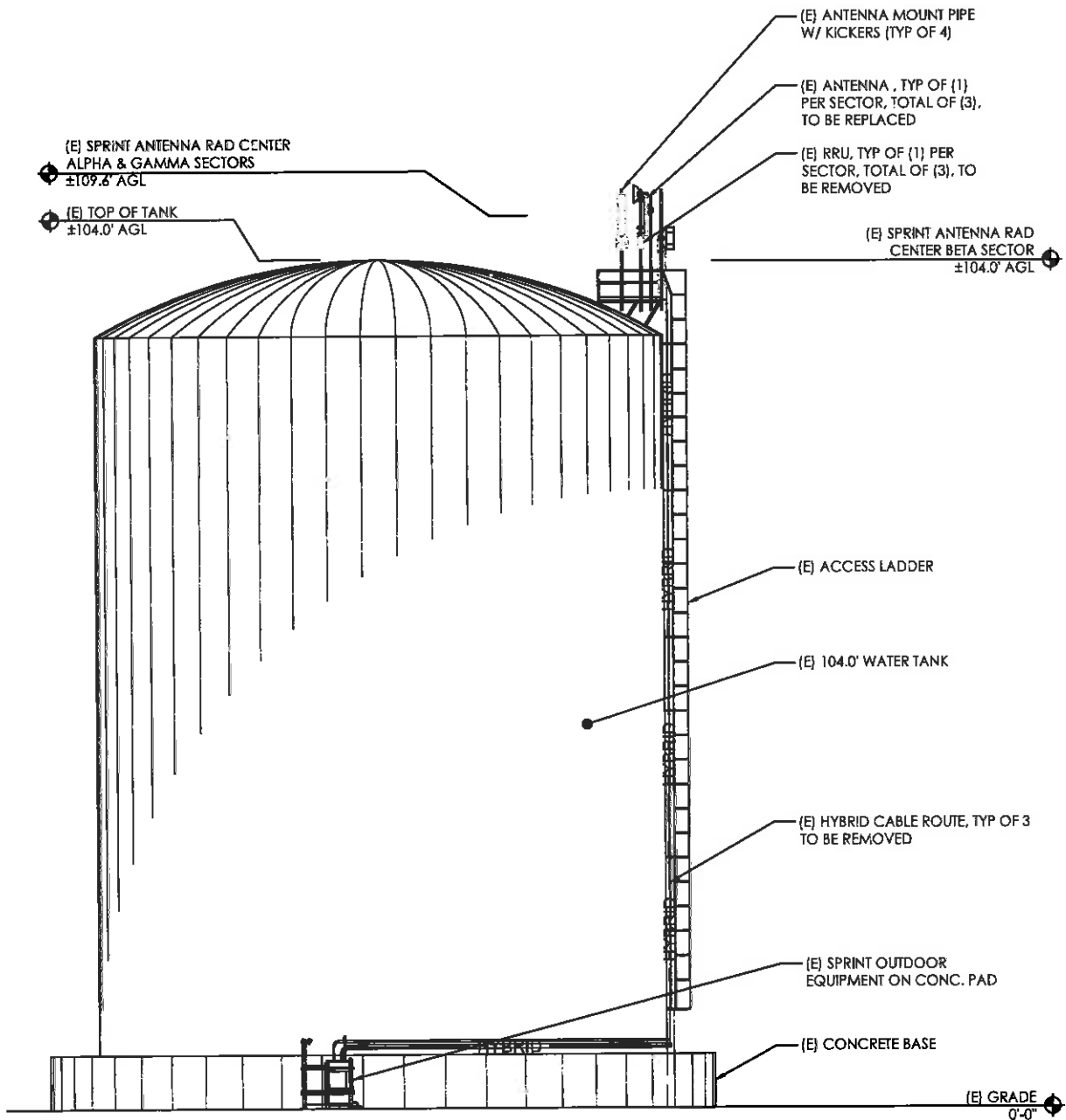
SHEET TITLE
ENLARGED SITE PLAN

SHEET NO.
A2.0



1 ENLARGED SITE PLAN

NOTES:
 1. THE PROJECT CM / PM TO VERIFY ANY REQUIRED PAINTING REQUIREMENTS FOR PROPOSED TOWER, ANTENNAS, ANCILLARY EQUIPMENT, CABLES, AND HARDWARE PRIOR TO ORDERING / INSTALLING EQUIPMENT.
 2. EXISTING ANTENNA MOUNTS SHALL COMPLY WITH STANDARDS AS REQUIRED BY SPRINT, SEE A4.0



CAPITAL DESIGN SERVICES
 3101 4TH AVE E. SUITE 202
 OLYMPIA, WA 98506
 360.915.0750
 WWW.CAPITALDESIGNSERVICES.COM



VSE Job #: U2619-181-193
VECTOR
 ENGINEERS

DRAWN BY: JL
 CHECKED BY: CL

DRAWING VERSION		
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

LICENSER

PROJECT INFORMATION
STAR LAKE WATER TANK
 SE52XC241
 2649 S STAR LAKE RD,
 FEDERAL WAY, WA 98003

SHEET TITLE
ELEVATIONS

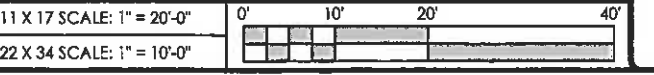
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A3.0



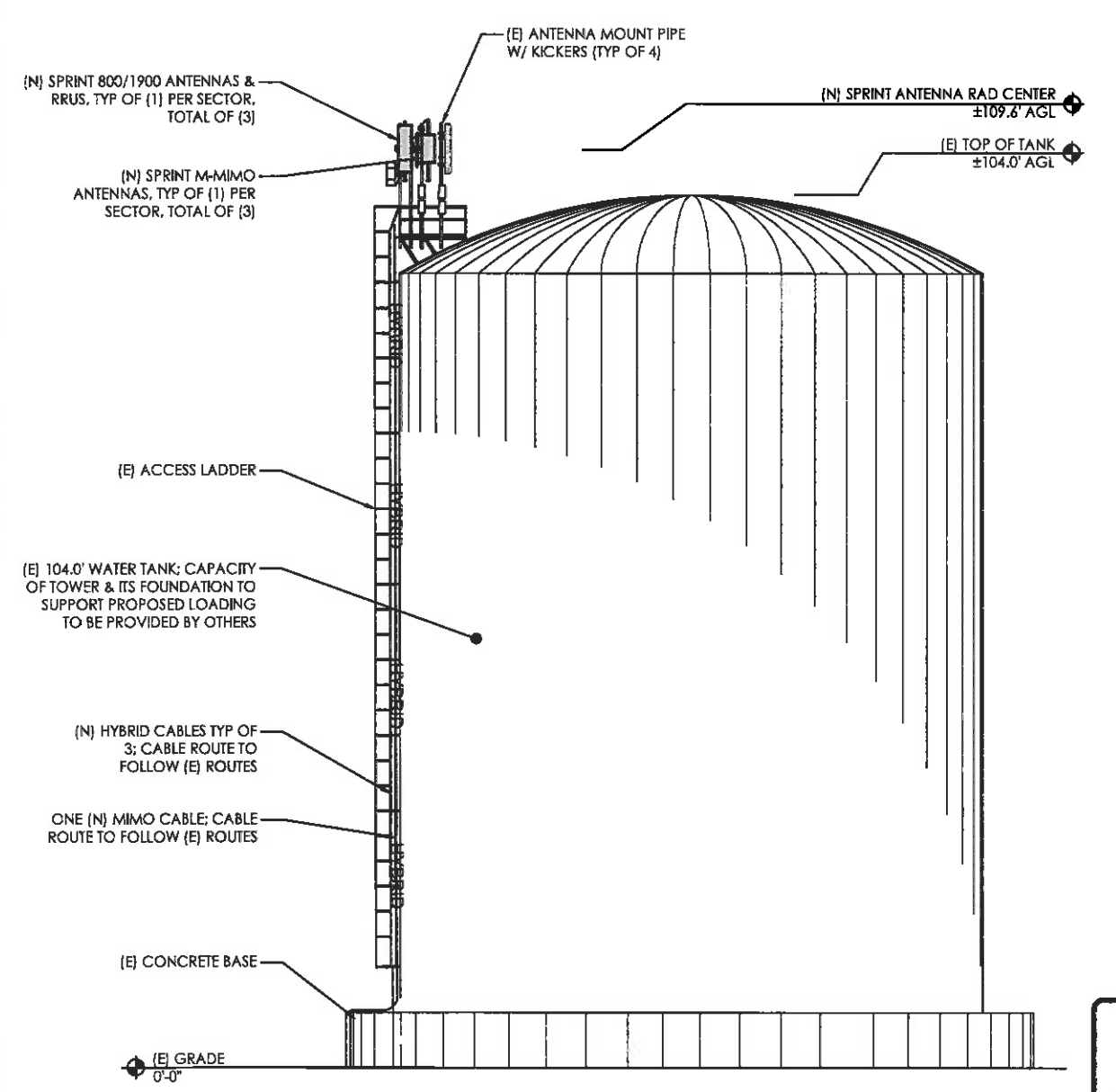
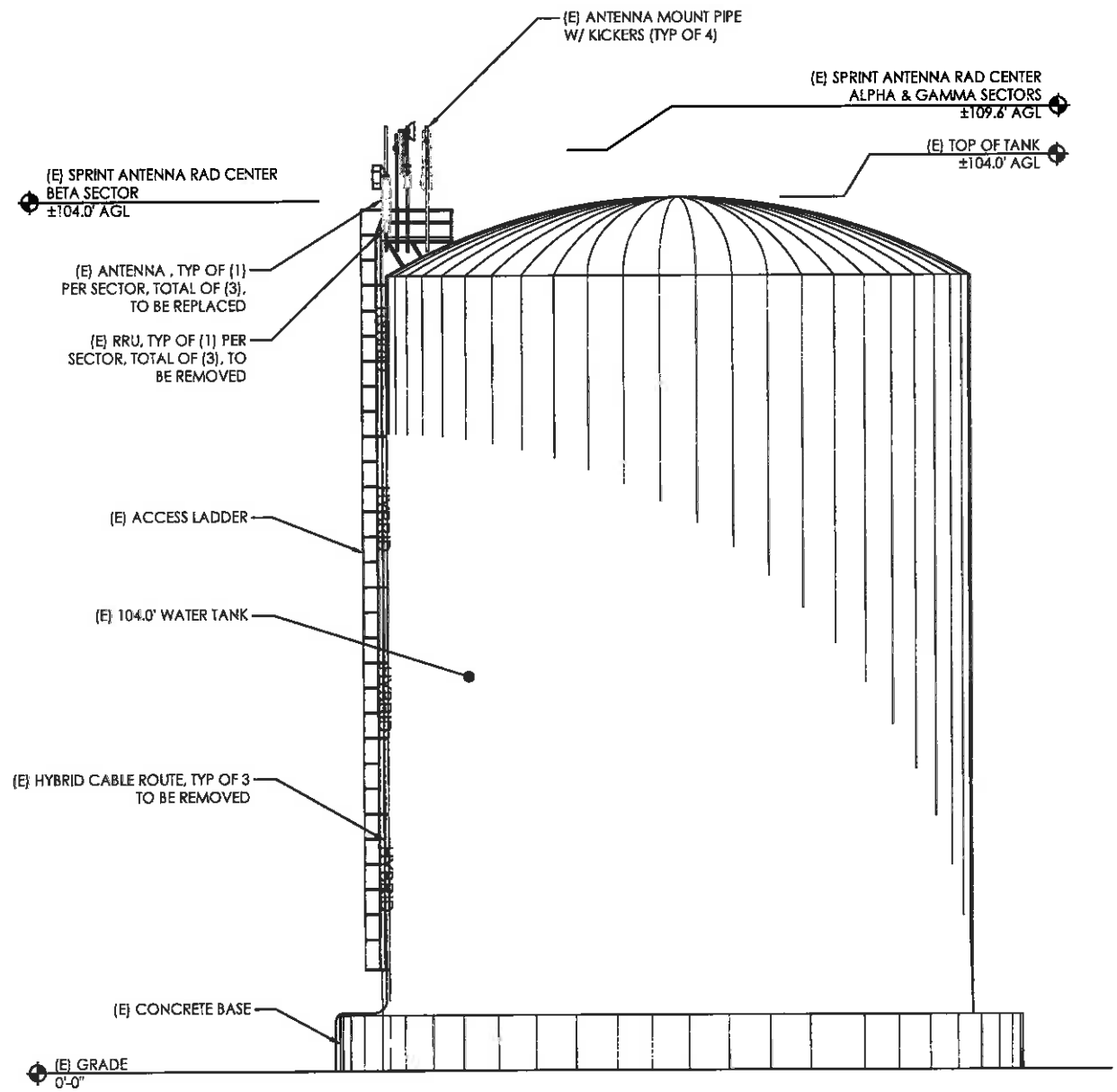
1 EXISTING NORTH ELEVATION



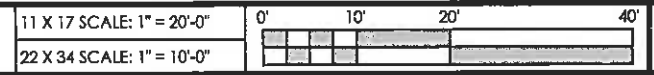
2 PROPOSED NORTH ELEVATION



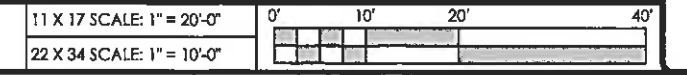
NOTES:
 1. THE PROJECT CM / PM TO VERIFY ANY REQUIRED PAINTING REQUIREMENTS FOR PROPOSED TOWER, ANTENNAS, ANCILLARY EQUIPMENT, CABLES, AND HARDWARE PRIOR TO ORDERING / INSTALLING EQUIPMENT.
 2. EXISTING ANTENNA MOUNTS SHALL COMPLY WITH STANDARDS AS REQUIRED BY SPRINT, SEE A4.0



1 EXISTING SOUTH ELEVATION



2 PROPOSED SOUTH ELEVATION



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VSE Job #: U2619-181-193
VECTOR ENGINEERS

DRAWN BY: JL
 CHECKED BY: CL

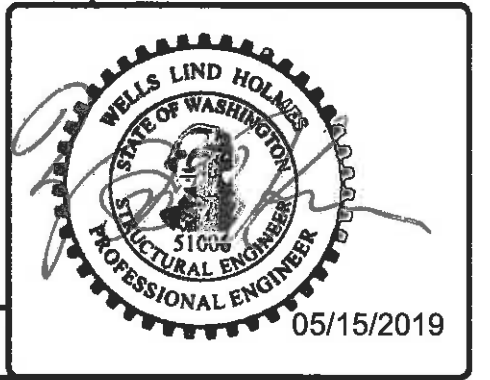
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VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

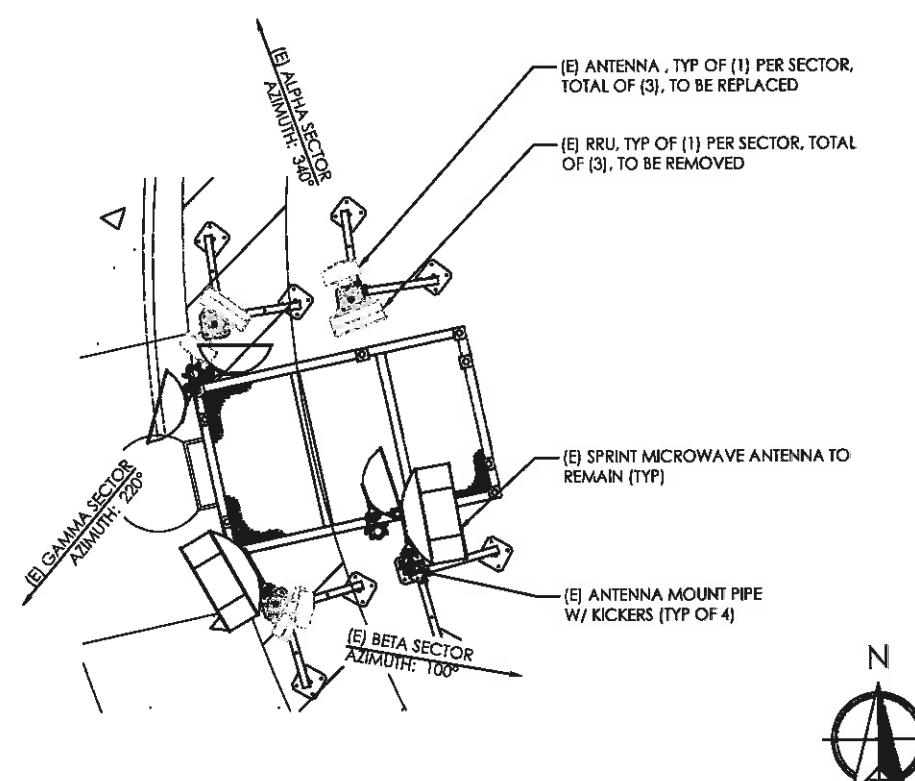
LICENSER

PROJECT INFORMATION
STAR LAKE WATER TANK
 SE52XC241
 2649 S STAR LAKE RD,
 FEDERAL WAY, WA 98003

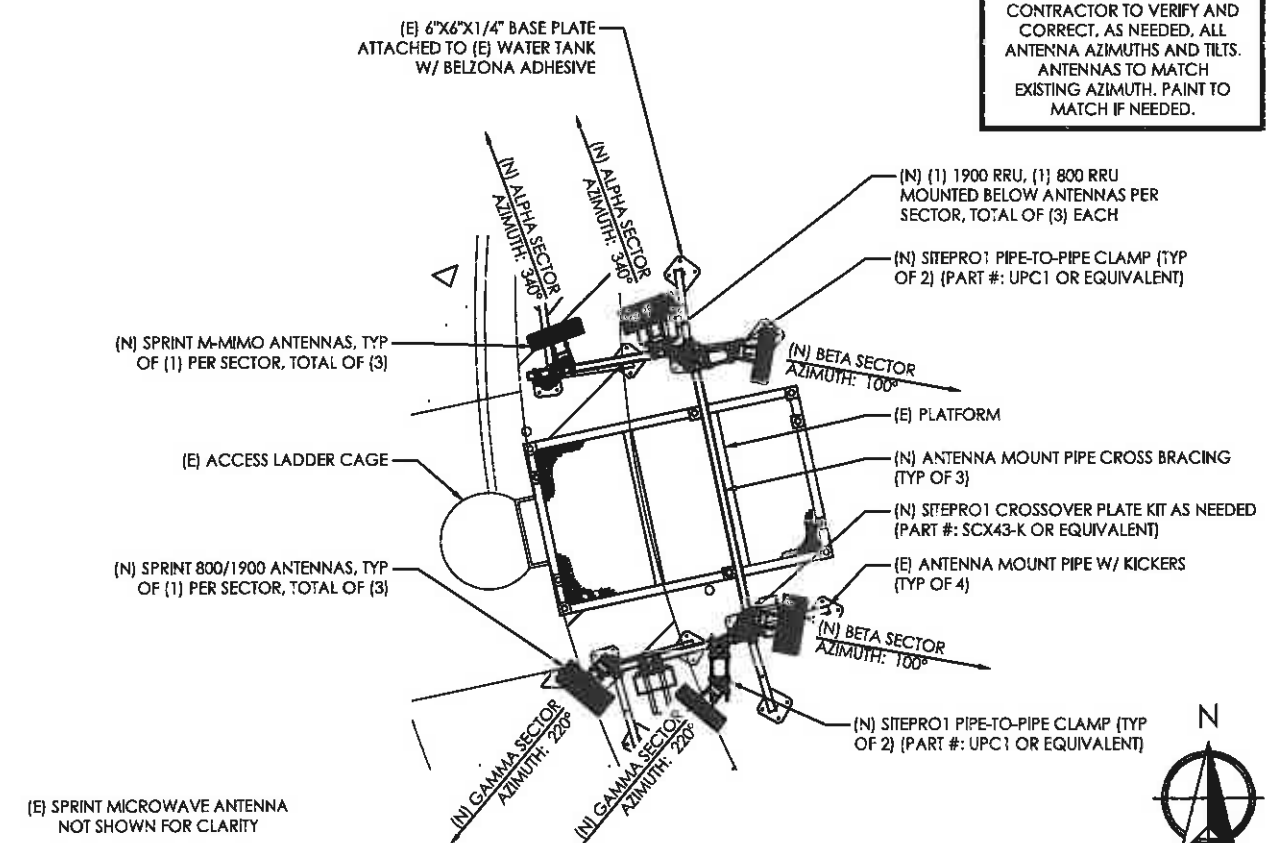
SHEET TITLE
ELEVATIONS

SHEET NO.
A3.1

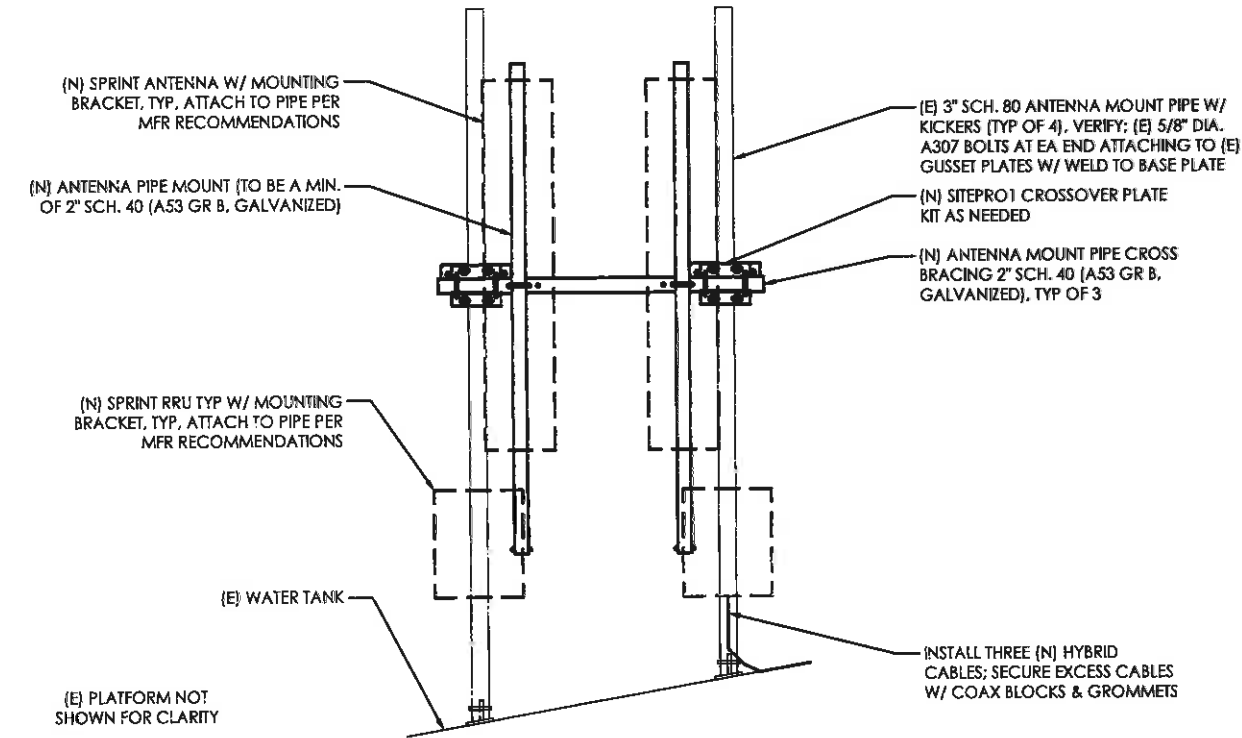




1 EXISTING ANTENNA PLAN 11X17 SCALE: NTS 22 X 34 SCALE: NTS



2 NEW ANTENNA PLAN 11X17 SCALE: NTS 22 X 34 SCALE: NTS



3 MOUNTING DETAIL

PROPOSED ANTENNA SCHEDULE

SECTOR	NEW / EXISTING	QTY	TECHNOLOGY	RAD CENTER	AZIMUTH	MFR	EQUIPMENT MODEL	DIMENSIONS (L x W x D)	HYBRID LENGTH	WEIGHT (LBS)
ALPHA 1	NEW	1	800/1900	109.6'	340°	RFS	APXVBLL15X_43-C-120	66.7" x 19.6" x 8.5"	±164 LF	75.0
ALPHA 2	NEW	1	mMIMO/2.5	109.6'	340°	SAMSUNG	64T64R MIMO	41.3" x 19.7" x 5.5"	±164 LF	132.2
BETA 1	NEW	1	800/1900	109.6'	100°	RFS	APXVBLL15X_43-C-120	66.7" x 19.6" x 8.5"	±164 LF	75.0
BETA 2	NEW	1	mMIMO/2.5	109.6'	100°	SAMSUNG	64T64R MIMO	41.3" x 19.7" x 5.5"	—	132.2
GAMMA 1	NEW	1	800/1900	109.6'	220°	RFS	APXVBLL15X_43-C-120	66.7" x 19.6" x 8.5"	±164 LF	75.0
GAMMA 2	NEW	1	mMIMO/2.5	109.6'	220°	SAMSUNG	64T64R MIMO	41.3" x 19.7" x 5.5"	—	132.2

4 SCHEDULE

NOTE:
CONTRACTOR TO VERIFY AND CORRECT, AS NEEDED, ALL ANTENNA AZIMUTHS AND TILTS. ANTENNAS TO MATCH EXISTING AZIMUTH. PAINT TO MATCH IF NEEDED.

NOTE:
ALL ANTENNA AZIMUTHS TO MATCH EXISTING ANTENNA AZIMUTHS
CONTRACTOR TO VERIFY ALL JUMPERS AND LENGTH QUANTITY



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VECTOR
ENGINEERS

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CHECKED BY: CL

DRAWING VERSION

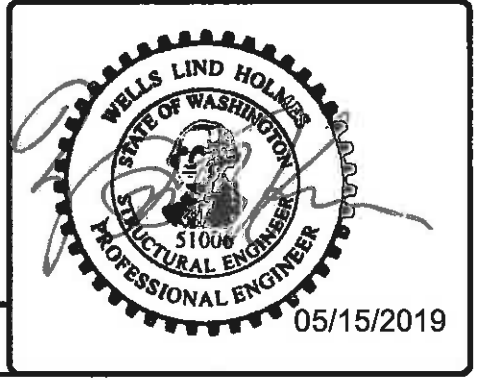
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

LICENSER

PROJECT INFORMATION
STAR LAKE WATER TANK
SE52XC241
2649 S STAR LAKE RD,
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SHEET TITLE
ANTENNA PLANS AND SCHEDULE

SHEET NO.
A4.0



ANTENNA

MODEL #:
APXV8BLL15X_43-C-120

DIMENSIONS:

LENGTH: 66.7"
WIDTH: 19.6"
DEPTH: 8.5"
WEIGHT: 37.4 LBS

FREQUENCY BAND:

696-960 MHz
1695-2690 MHz

QTY OF RF CONNECTORS:

(8) TOTAL

MANUFACTURER:

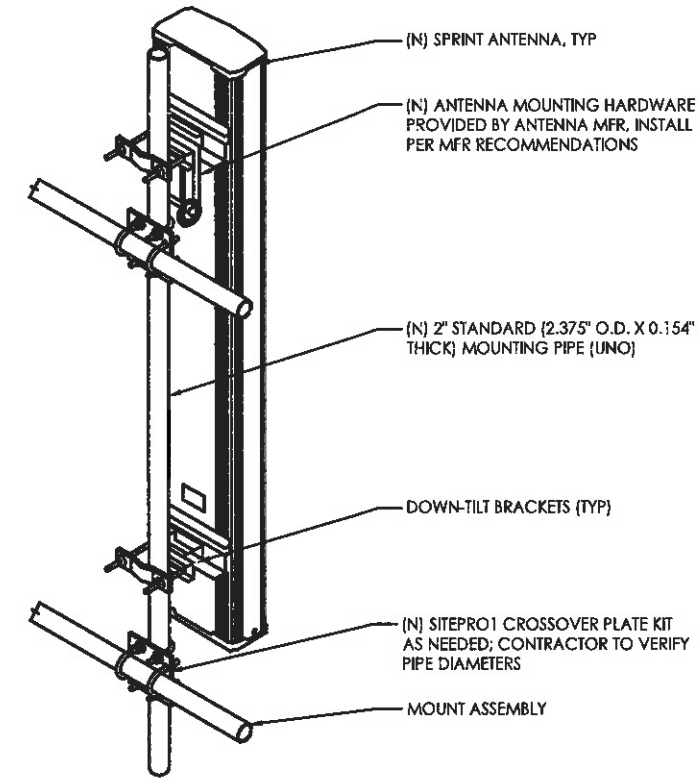
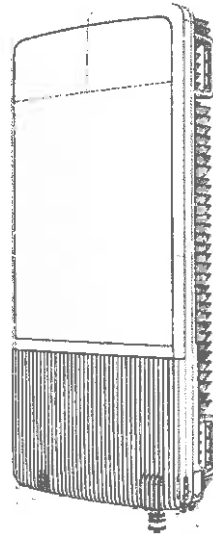
RFS

NOTES:

MOUNT ANTENNA PER MANUFACTURER RECOMMENDATIONS.



RADIO MODULE
TEMPERATURE SUPPORT: -40°C TO 55°C
OF TX/RX: 64164R
FREQUENCY BAND-MHZ: 2496-2690
IBW (MHZ): 60
WEIGHT- (MMU): 132.2 LBS
WEIGHT- (BBU): <33.0 LBS
DIMENSION- CM (AAU) (H X W X D): 41.3 X 19.7 X 5.5
DIMENSION- CM (BBU) (H X W X D): 3.4 X 17.0 X 15.2
VOLUME - L (AAU): 73.5L
POWER CONSUMPTION (W): 1572 (MAX)
OF ANTENNA ELEMENTS: 128
OF ANTENNA ELEMENTS- COLUMNS: 8



1 DUAL BAND ANTENNA SPECIFICATIONS

11X17 SCALE: NTS
22 X 34 SCALE: NTS

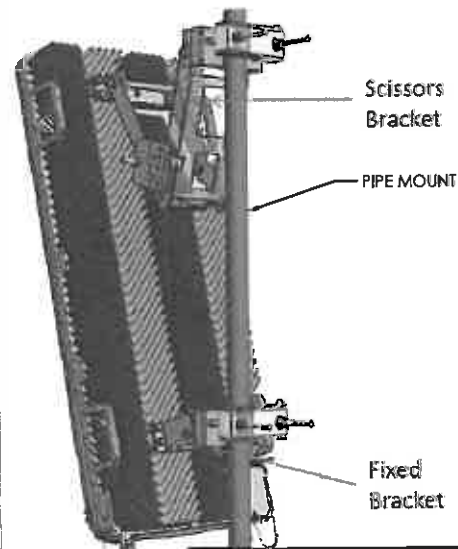
2

11X17 SCALE: NTS
22 X 34 SCALE: NTS

3

ANTENNA BRACKET MOUNTING DETAIL

11X17 SCALE: NTS
22 X 34 SCALE: NTS



PART NUMBER: EP97-01647A
MATERIAL: ALUMINUM ALLOY 6061
POWDER-COAT PAINT: SANDBLAST 80#
WEIGHT: 7.6 LBS
INSTALLABLE POLE DIA.: 2" - 4"
TILTING: -15°
AZIMUTH: 0°
PARTS LIST: 1SET SCISSORS BRACKET
1SET FIXED BRACKET
MAKER: SEOJIN

RRH-C4

DIMENSIONS:

HEIGHT: 12.6"
WIDTH: 12.6"
DEPTH: 7.68"
WEIGHT: ±55.0 LBS

MANUFACTURER:

SMASUNG

NOTES:

MOUNT RRU PER MANUFACTURER RECOMMENDATIONS.



1900 RRU

DIMENSIONS:

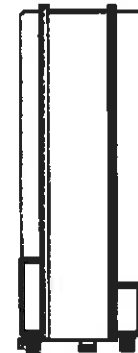
HEIGHT: 23.8"
WIDTH: 9.0"
DEPTH: 13.8"
WEIGHT: ±55.0 LBS

MANUFACTURER:

SMASUNG

NOTES:

MOUNT RRU PER MANUFACTURER RECOMMENDATIONS.



4 MIMO MOUNTING DETAIL

11X17 SCALE: NTS
22 X 34 SCALE: NTS

5

800 RRU

11X17 SCALE: NTS
22 X 34 SCALE: NTS

6

1900 RRU

11X17 SCALE: NTS
22 X 34 SCALE: NTS

6

NOT USED



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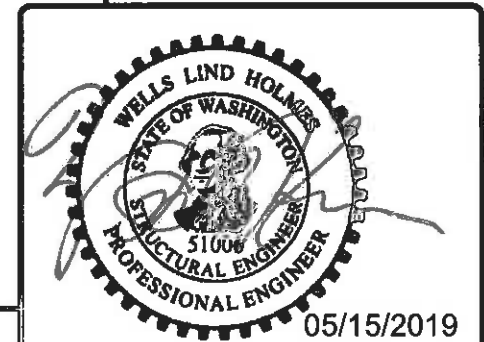
DRAWING VERSION		
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

LICENSER

PROJECT INFORMATION
STAR LAKE WATER TANK
SE52XC241
2649 S STAR LAKE RD,
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SHEET TITLE
EQUIPMENT SPECIFICATIONS

SHEET NO.
A5.0



05/15/2019

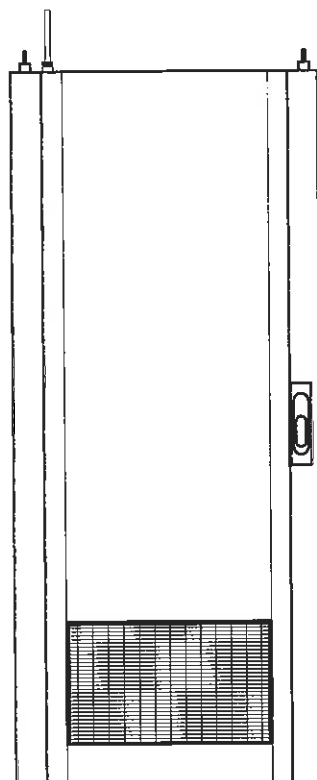
ECAB

MODEL #:
ESOA220-SCA02

DIMENSIONS:
HEIGHT: 73.5"
WIDTH: 30.0"
DEPTH: 38.0"
WEIGHT: 505 LBS

MANUFACTURER:
ELTEK

NOTES:
MOUNT PER MANUFACTURER RECOMMENDATIONS.



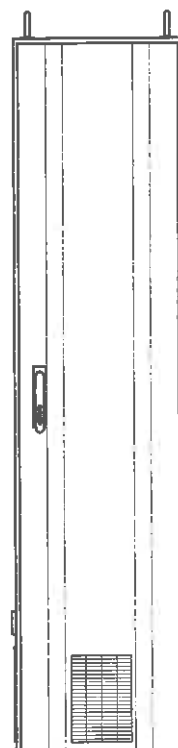
BCAB

MODEL #:
ESOF020-ECV02

DIMENSIONS:
HEIGHT: 70.00"
WIDTH: 16.54"
DEPTH: 34.72"
WEIGHT: 330 LBS W/OUT BATTERIES

MANUFACTURER:
ELTEK

NOTES:
MOUNT PER MANUFACTURER RECOMMENDATIONS.



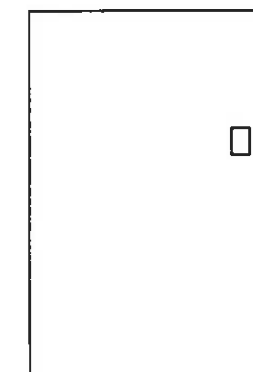
TELCO CABINET

MODEL #:
3922004700

DIMENSIONS:
HEIGHT: 36.00"
WIDTH: 24.00"
DEPTH: 23.00"
WEIGHT: 50 LBS

MANUFACTURER:
ELTEK

NOTES:
MOUNT PER MANUFACTURER RECOMMENDATIONS.



1 ECAB SPECIFICATIONS

11X17 SCALE: NTS
22 X 34 SCALE: NTS

2 BCAB SPECIFICATIONS

11X17 SCALE: NTS
22 X 34 SCALE: NTS

3 TELCO CABINET SPECIFICATIONS

11X17 SCALE: NTS
22 X 34 SCALE: NTS

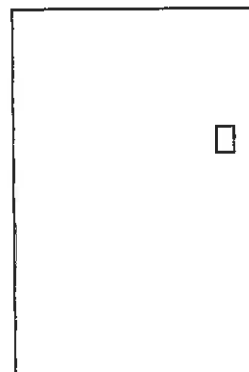
PPC CABINET

MODEL #:
581122036

DIMENSIONS:
HEIGHT: 36.00"
WIDTH: 24.00"
DEPTH: 10.00"
WEIGHT: 80 LBS

MANUFACTURER:
ELTEK

NOTES:
MOUNT PER MANUFACTURER RECOMMENDATIONS.



4 PPC CABINET SPECIFICATIONS

11X17 SCALE: NTS
22 X 34 SCALE: NTS

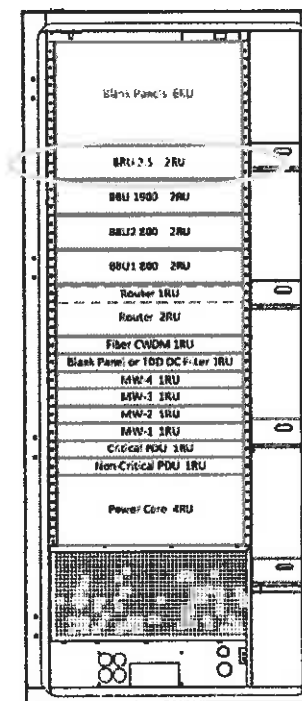
5 BATTERY INFO

IFC CHAPTER 6 COMPLIANCE				
TOTAL ELECTROLYTE = 12 BATTERIES X 2.49 GAL / BATTERY = 29.88 GAL (PRICE <30 GAL OF ELECTROLYTE, IFC CHAPTER 6, SECTION 606 NOT APPLICABLE)				
BATTERY INFORMATION (BATTERY ELECTROLYTE DATA - 12V MONOBLOCKS)				
BATTERY MODEL	TOTAL # OF BATTERY UNITS INSTALLED	TOTAL ELECTROLYTE VOLUME (GAL) PER UNIT	TOTAL ELECTROLYTE WEIGHT (LBS) PER UNIT	% SULFURIC ACID BY VOL = ACID VOLUME / UNIT ELECTROLYTE VOLUME / UNIT
12N0190	12	2.49 GAL	27.25 LBS	50% = 1.45 GAL / 2.49 GAL
% SULFURIC ACID BY WEIGHT	TOTAL ACID WEIGHT = TOTAL ELECTROLYTE WEIGHT	TOTAL SULFURIC VOLUME (GAL)	TOTAL UNITS X SULFURIC VOLUME / UNITS	TOTAL SULFURIC WEIGHT (LBS) = TOTAL UNITS X ACID WEIGHT / UNIT
40.0%	11.12 LBS / 27.25 LBS	17.4 GAL	12 UNITS X 1.45 / UNIT	133.44 LBS = 12 UNITS X 11.12 LBS

11X17 SCALE: NTS
22 X 34 SCALE: NTS

6 CABINET INFO

11X17 SCALE: NTS
22 X 34 SCALE: NTS



ALL SPRINT DO CABINETS REQUIRE THE OEM 2.5 TDD BBU TO BE REMOVED AND REPLACED WITH THE RESPECTIVE OEM FD-MIMO BBU

ALU/NSN or STA



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VECTOR ENGINEERS

DRAWN BY: JL
CHECKED BY: CL

DRAWING VERSION		
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

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PROJECT INFORMATION

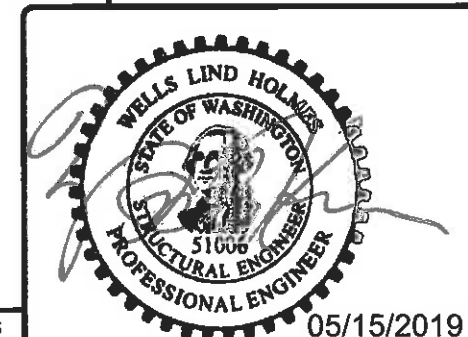
STAR LAKE WATER TANK
SE52XC241
2649 S STAR LAKE RD.
FEDERAL WAY, WA 98003

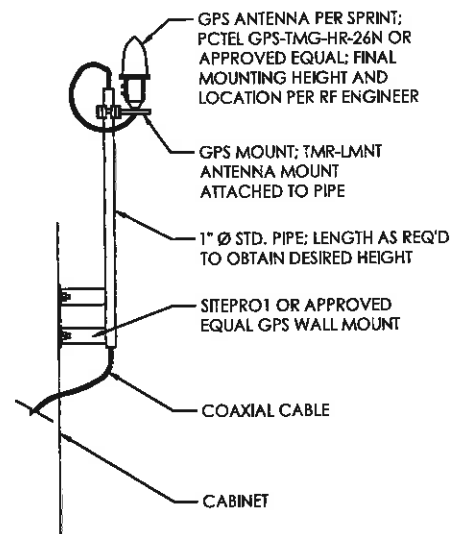
SHEET TITLE

EQUIPMENT SPECIFICATIONS

SHEET NO.

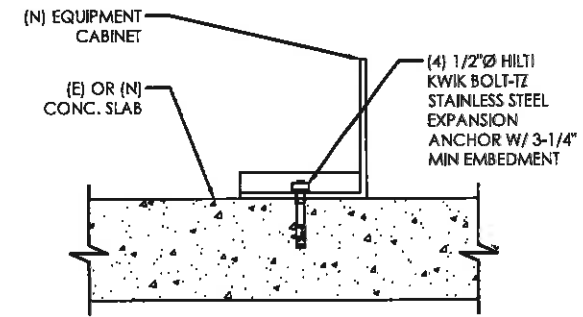
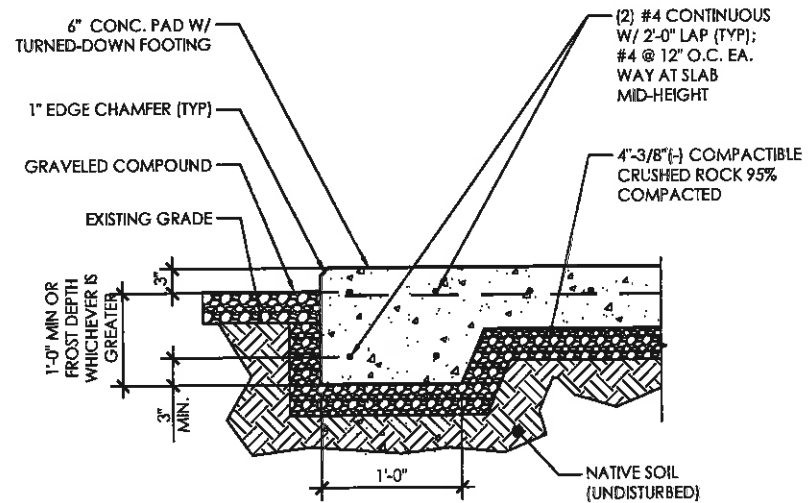
A5.1





NOTES:

1. SLOPE CONCRETE 1/4" PER FOOT MINIMUM.
2. VERIFY EQUIPMENT CABINET SPECIFICATIONS FOR MOUNTING HOLE LOCATIONS.
3. MINIMUM OF 2" COVER AT TOP OF SLAB, AND 3" WHERE CONCRETE IS IN CONTACT W/ SOIL.
4. SOIL SHALL BE PREPARED WITH A FLAT SURFACE, FREE AND CLEAR OF STANDING WATER AND LOOSE DEBRIS. SOIL SHOULD BE WELL COMPACTED TO 90% OF IT MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
5. TOP SURFACE OF SLAB SHALL BE A LIGHT BROOM FINISH AND TAPERED TO ALLOW WATER TO SHED WITHOUT PONDING.



- NOTES:**
1. VERIFY EQUIPMENT CABINET SPECIFICATIONS FOR MOUNTING HOLE LOCATIONS.

1 GPS ANTENNA SPECIFICATIONS

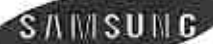
11X17 SCALE: NTS
22 X 34 SCALE: NTS

2 EQUIP PAD SECTION

11X17 SCALE: NTS
22 X 34 SCALE: NTS

3 CABINET MOUNTING DETAIL

11X17 SCALE: NTS
22 X 34 SCALE: NTS



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VSE Job #: U2619-181-193
VECTOR
ENGINEERS

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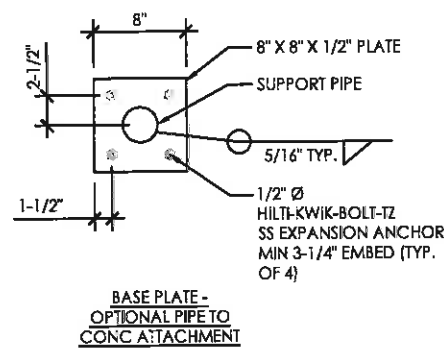
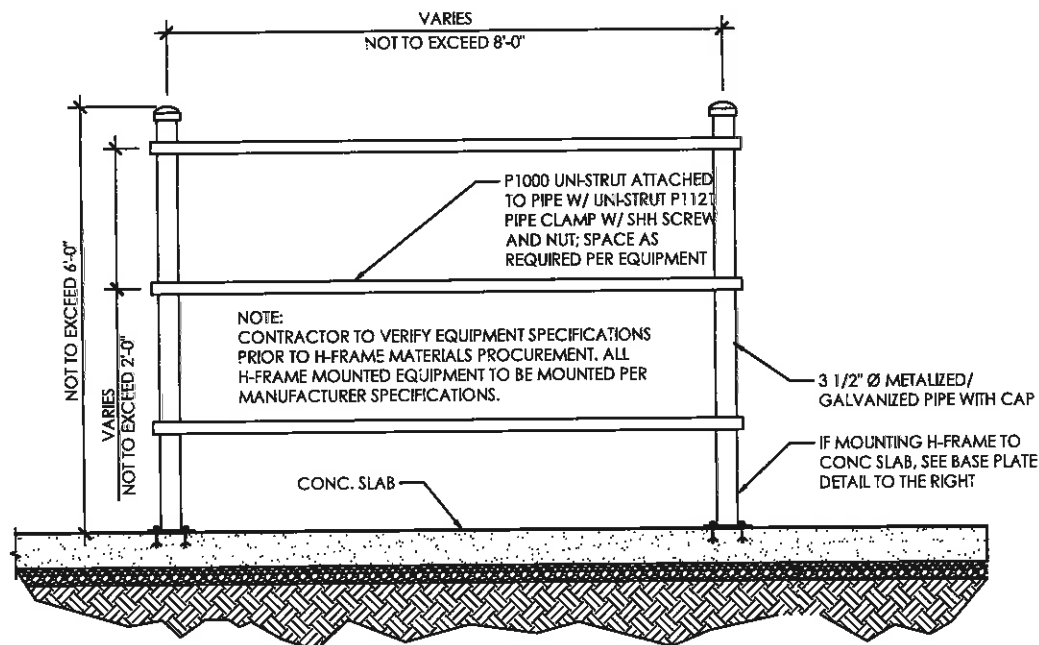
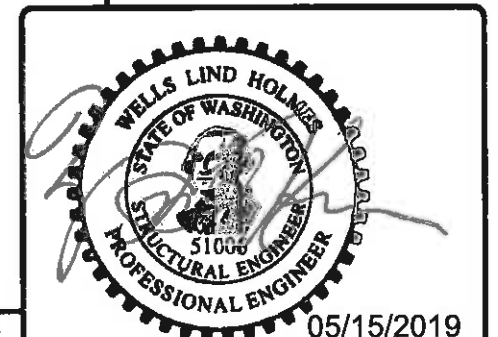
DRAWING VERSION		
VER.	DATE	DESCRIPTION
1	5/2/19	FINAL CX DRAWINGS

LICENSER

PROJECT INFORMATION
STAR LAKE WATER TANK
SE52XC241
2649 S STAR LAKE RD,
FEDERAL WAY, WA 98003

SHEET TITLE
EQUIPMENT SPECIFICATIONS

SHEET NO.
A5.2

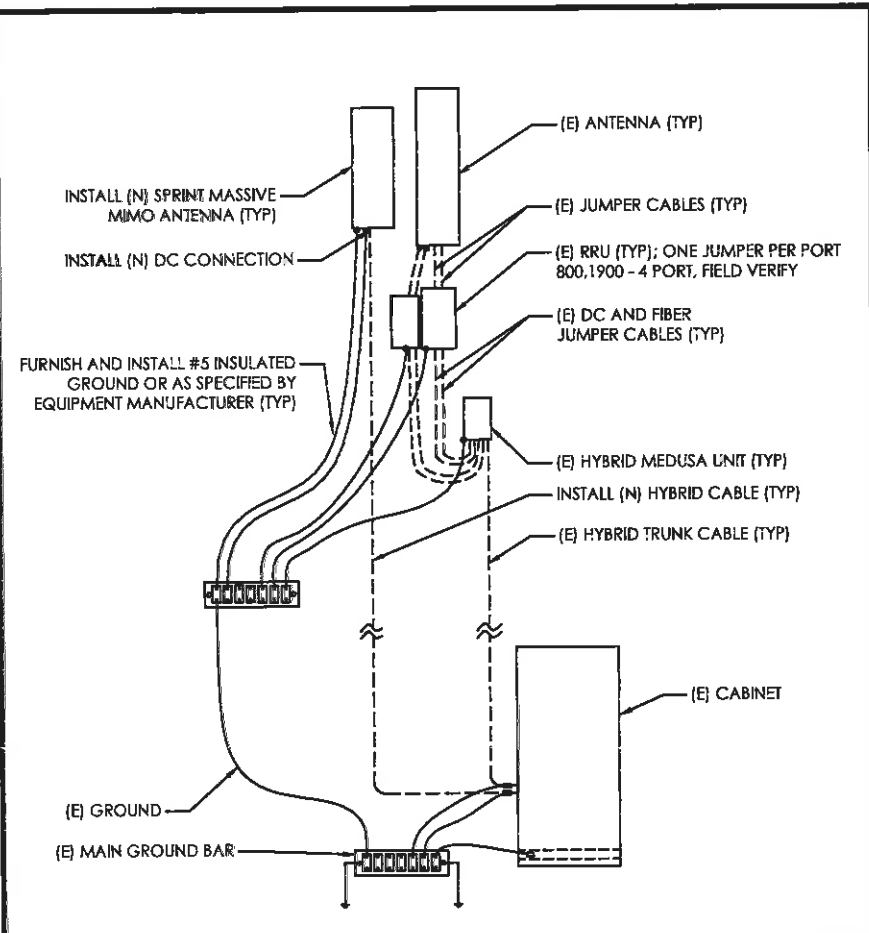


4 H-FRAME

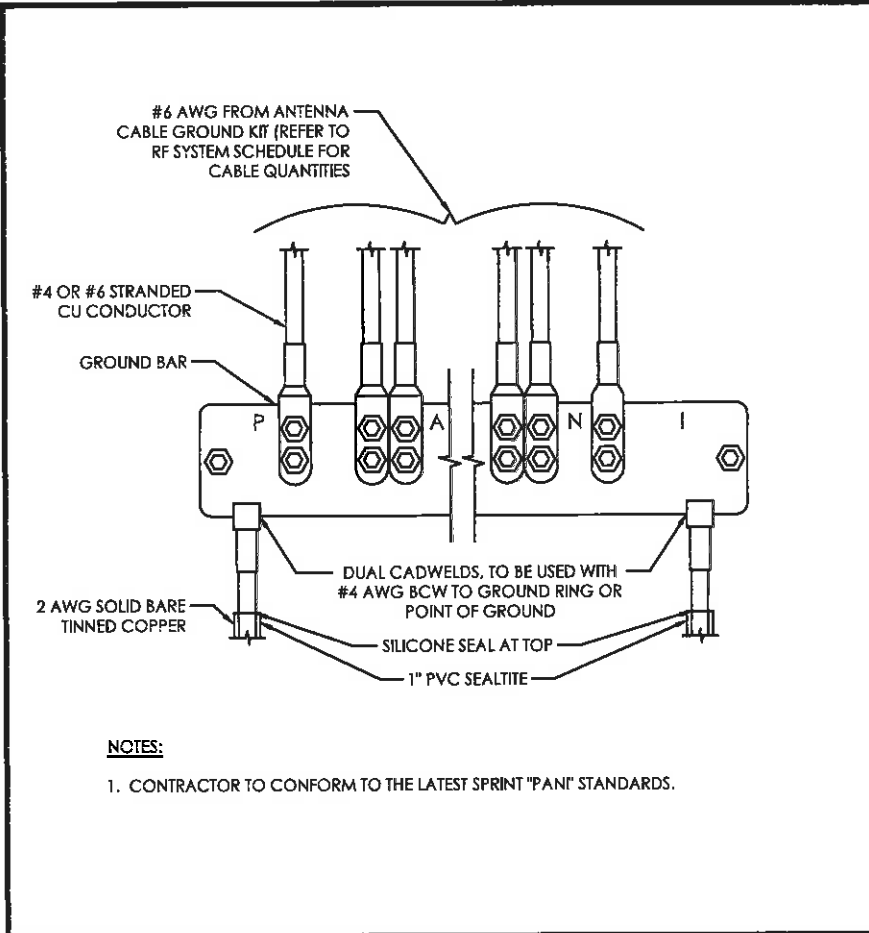
11X17 SCALE: NTS
22 X 34 SCALE: NTS

5 NOT USED

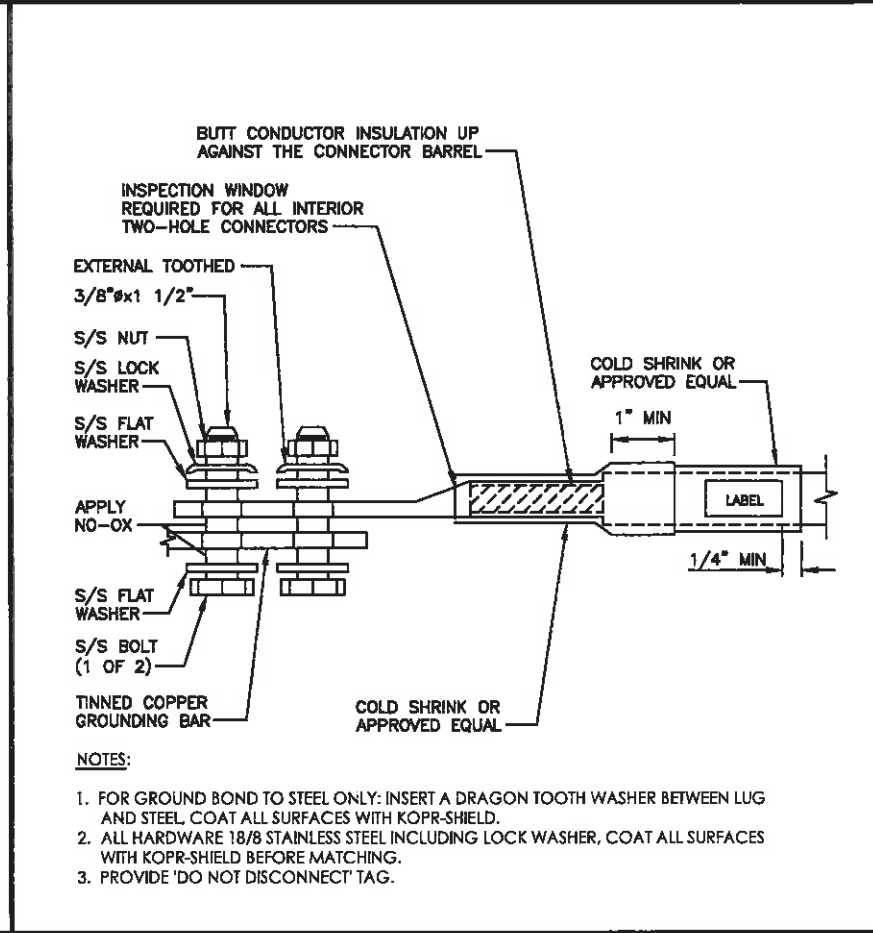
11X17 SCALE: NTS
22 X 34 SCALE: NTS



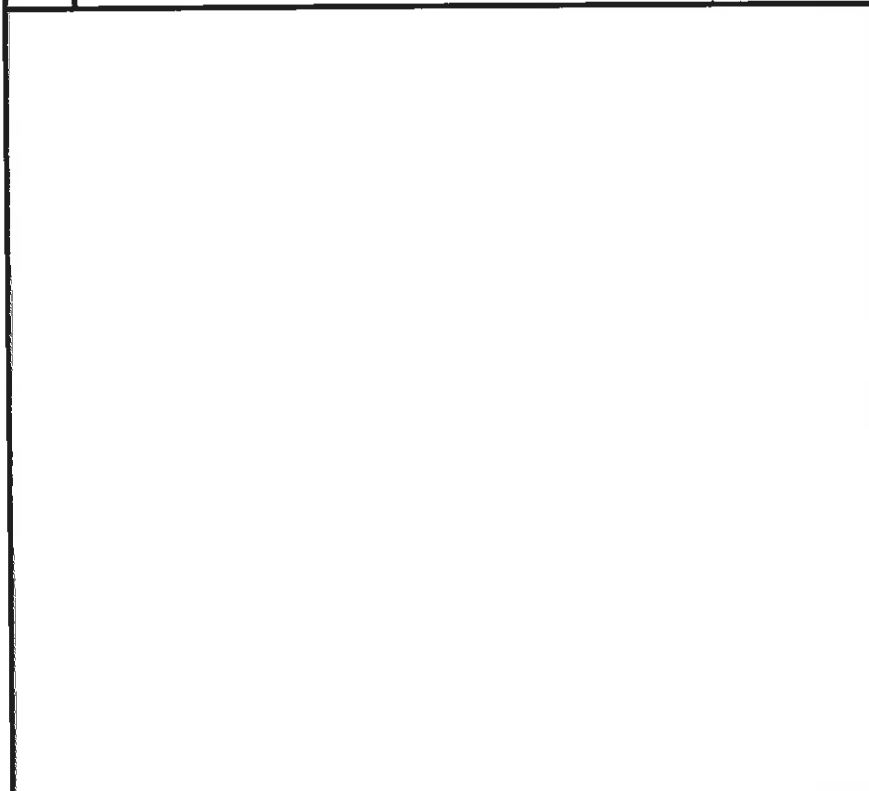
1 ONE - LINE DIAGRAM
 11X17 SCALE: NTS
 22 X 34 SCALE: NTS



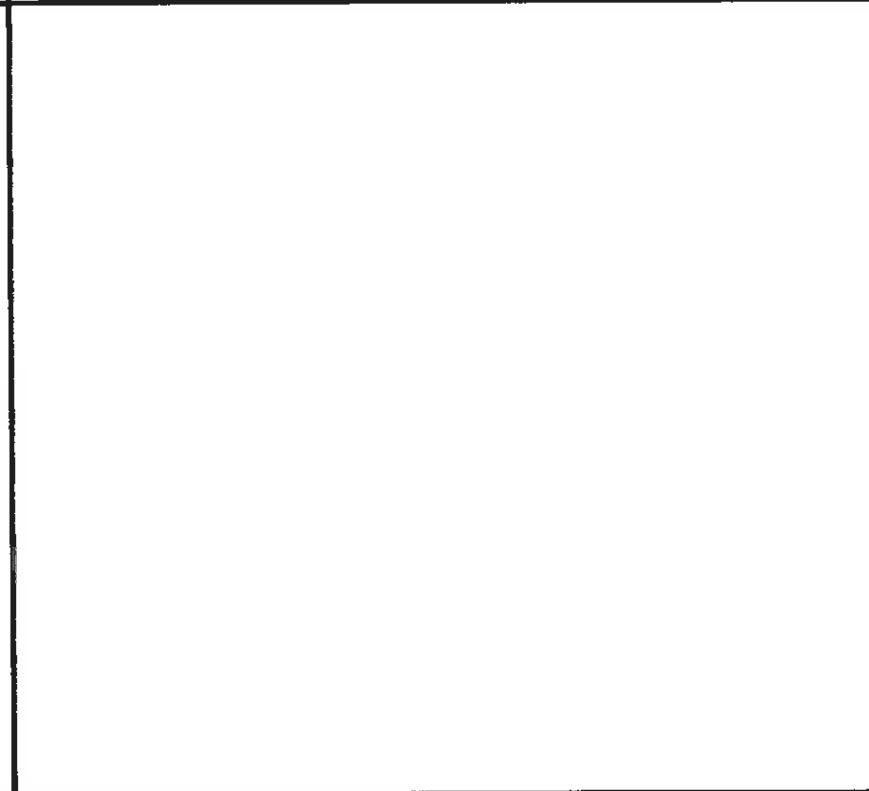
2 GROUND BAR TO GROUND WIRE
 11X17 SCALE: NTS
 22 X 34 SCALE: NTS



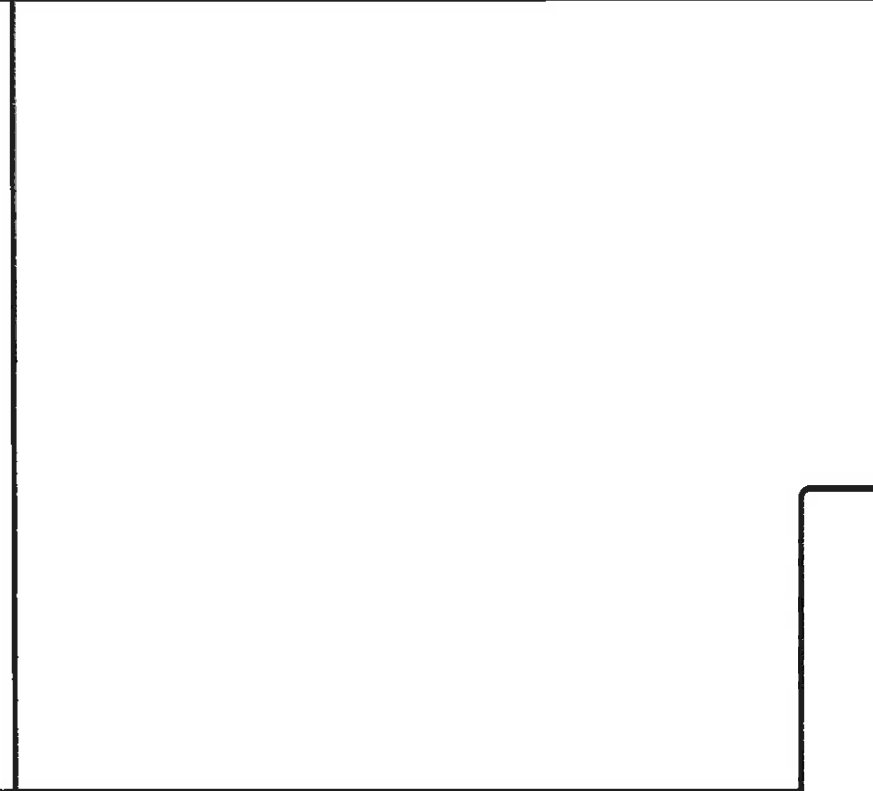
3 TYPICAL TWO HOLE LUG
 11X17 SCALE: NTS
 22 X 34 SCALE: NTS



4 NOT USED



5 NOT USED



6 NOT USED



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DRAWING VERSION		
VER.	DATE	DESCRIPTION
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PROJECT INFORMATION
 STAR LAKE WATER TANK
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SHEET TITLE
 ELECTRICAL
 DETAILS

SHEET NO.
 E1.0

